



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY
APPLICATION #: OSP - 0518 - 10

OSHPD Special Seismic Certification Preapproval (OSP)

Type: [X] New [] Renewal

Manufacturer Information

Manufacturer: Samsung

Manufacturer's Technical Representative: Ninad Gujar

Mailing Address: 14 Electronics Avenue, Danvers, MA 01923 USA

Telephone: On File Email: On File

Product Information

Product Name: GC70 Digital X-Ray System

Product Type: Radiography medical diagnostic imaging system.

Product Model Number: See Attachment 1.
(List all unique product identification numbers and/or part numbers)

General Description: Multiple component medical diagnostic imaging system. Seismic enhancements made to test
Units and modifications to address anomalies observed in testing shall be incorporated in the certified units.

Mounting Description: See Attachment 1.

Applicant Information

Applicant Company Name: EASE LLC

Contact Person: Jonathan Roberson, S.E.

Mailing Address: 5877 Pine Ave, Suite 210, Chino Hills, CA. 91709

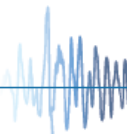
Telephone: (909) 606-7622 Email: j.roberson@easeco.com

I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in
accordance with the California Administrative Code, 2016.

Signature of Applicant: [Handwritten Signature] Date: 12/08/2017

Title: Principal Structural Engineer Company Name: EASE LLC

Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs





**OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION**

California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)

Company Name: EASE LLC

Name: Jonathan Roberson, S.E. California License Number: S4197

Mailing Address: 5877 Pine Ave, Suite 210, Chino Hills, CA. 91709

Telephone: (909) 606-7622 Email: j.roberson@easeco.com

Supports and Attachments Preapproval

- Supports and attachments are preapproved under OPM- _____
(Separate application for OSHPD Preapproval of Manufacturer's Certification (OPM) of Supports and attachments is required)
- Supports and attachments are not preapproved

Certification Method

- Testing in accordance with: ICC-ES AC156
- Other (Please Specify): _____

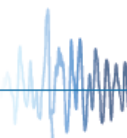
Testing Laboratory

Company Name: Environmental Testing Laboratory, Inc.

Contact Name: Brady Richard

Mailing Address: 11034 Indian Trail, Dallas, TX. 75229-3513

Telephone: (972) 247-9657 Email: brady@etldallas.com





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Seismic Parameters

Design in accordance with ASCE 7-10 Chapter 13: Yes No

Design Basis of Equipment or Components (F_p/W_p) = See Attachment 1

S_{DS} (Design spectral response acceleration at short period, g) = 2.00 (z/h = 1); 2.50 (z/h = 0)

a_p (In-structure equipment or component amplification factor) = See Attachment 1

R_p (Equipment or component response modification factor) = See Attachment 1

Ω_0 (System overstrength factor) = See Attachment 1

I_p (Importance factor) = 1.5

z/h (Height factor ratio) = 1 ($S_{DS} = 2.00$); 0 ($S_{DS} = 2.50$)

Equipment or Component Natural Frequencies (Hz) = See Attachment 2

Overall dimensions and weight (or range thereof) = See Attachment 1

Equipment or Components @ grade designed in accordance with ASCE 7-10 Chapter 15: Yes No

Design Basis of Equipment or Components (V/W) = _____

S_{DS} (Design spectral response acceleration at short period, g) = _____

S_{D1} (Design spectral response acceleration at 1 second period, g) = _____

R (Response modification coefficient) = _____

Ω_0 (System overstrength factor) = _____

C_d (Deflection amplification factor) = _____

I_p (Importance factor) = 1.5

Height to Center of Gravity above base = _____

Equipment or Component Natural Frequencies (Hz) = _____

Overall dimensions and weight (or range thereof) = _____

Tank(s) designed in accordance with ASME BPVC, 2015: Yes No

List of Attachments Supporting Special Seismic Certification

Test Report(s) Drawings Calculations Manufacturer's Catalog

Other(s) (Please Specify): ATTACHMENTS 1 & 2

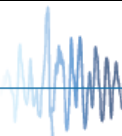
OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2022

Signature:  Date: February 9, 2018

Print Name: Timothy J. Piland Title: SSE

Special Seismic Certification Valid Up to : S_{DS} (g) = See Above z/h = See Above

Condition of Approval (if applicable): _____



ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS


TABLE 1:


Manufacturer		Samsung																	
System		GC70 Digital X-Ray System																	
COMPONENT	MODEL NO.	APPROX. DIMENSIONS (IN.)			WT. (LB.)	MOUNT	BASIS ^[1]	F _p /W _p	S _{DS}	z/h	a _p	R _p	Ω ₀						
		W	D	H															
X-RAY TUBE SUSPENSIONS																			
Ceiling-Mounted Tube Head Unit w/ X-Ray Tube 600k (Toshiba)	SDR-OGTS73A	157.5	157.5	49.4 min.	902	Ceiling	UUT 1607-1	3.60 Wp 1.50 Wp	2.0 2.5	1 0	2 ½	2 ½	2						
X-Rail	E7869X			121.6 max.															
4m Bridge (Y-Rail)	DGR-OPTRL3/US																		
Ceiling-Mounted Tube Head Unit w/ X-Ray Tube 300K (Toshiba)	SDR-OGTS73A	157.5	23.6	49.4 min.	889	Ceiling	INT												
X-Rail	E7252X			121.6 max.															
4m Bridge (Y-Rail)	DGR-OPTRL3/US																		
Ceiling-Mounted Tube Head Unit w/ X-Ray Tube 600k	SDR-OGTS73A	118.1	23.6	49.4 min.	849	Ceiling	INT												
X-Rail	E7869X			121.6 max.															
3m Bridge (Y-Rail)	DGR-OPTRL3/US																		
Ceiling-Mounted Tube Head Unit w/ X-Ray Tube 300K	SDR-OGTS73A	118.1	23.6	49.4 min.	836	Ceiling	UUT 1607-2												
X-Rail	E7252X			121.6 max.															
3m Bridge (Y-Rail)	DGR-OPTRL3/US																		
PATIENT TABLES ^[4]																			
Patient Table	SDR-OGTA80U	94.9	32.0	21.5 min	504 ^[2]	Rigid Base	UUT 1607-11	2.40 Wp 1.13 Wp	2.0 2.5	1 0	1	1 ½	1 ½						
Wireless Detector (C2)	S4343-W			35.4 max															
Patient Table	SDR-OGTA80U	21.5 min	441 ^{[2][9]}	35.4 max															
Wireless Detector (C1#)	S4335-W	35.4 max																	
Floor Switch (Table)	SDR-OGSF70A	15.7	7.9	5.5	2.5	Rigid Base	UUT 1607-10												
WALL STANDS ^[5]																			
Wallstand	SDR-OGST73A	29.3	37.4	85.8	430	Wall/Floor	UUT 1607-4	2.40 Wp 1.13 Wp	2.0 2.5	1 0	1	1 ½	1 ½						
Wireless Detector (C1#)	S4335-W																		
Wallstand	SDR-OGST73B	29.3	37.4	85.8	430	Wall/Floor	UUT 1607-5												
Wireless Detector (C2)	S4343-W																		
POWER DISTRIBUTION ^[6]																			
System Cabinet w/ 82kW HVG (DRGEM)	SDR-OGCA75A	29.5	19.9	44.1	485	Rigid Base	UUT 1607-6							1.50 Wp 1.13 Wp	2.0 2.5	1 0	2 ½	6	2

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS


TABLE 1:


Manufacturer		Samsung												
System		GC70 Digital X-Ray System												
COMPONENT	MODEL NO.	APPROX. DIMENSIONS (IN.)			WT. (LB.)	MOUNT	BASIS ^[1]	F _p /W _p	S _{DS}	z/h	a _p	R _p	Ω _o	
		W	D	H										
System Cabinet w/ 52kW HVG (DRGEM)	SDR-OGCA75B	29.5	19.9	44.1	485	Rigid Base	SAME	1.50 Wp 1.13 Wp	2.0 2.5	1 0	2 ½	6	2	
System Cabinet w/ 50kW HVG (SPELLMAN)	SDR-OGCA75D	29.5	19.9	44.1	408	Rigid Base	UUT 1607-7	1.50 Wp 1.13 Wp	2.0 2.5	1 0	2 ½	6	2	
System Cabinet w/ 80kW HVG (SPELLMAN)	SDR-OGCA75C	29.5	19.9	44.1	408	Rigid Base	UUT 1607-9	1.50 Wp 1.13 Wp	2.0 2.5	1 0	2 ½	6	2	
USER INTERFACE														
Lenovo ThinkStation P310 PC ^[7]	30ASS04X00	6.9	16.8	14.8	19	Rigid Base	UUT 1601-5	1.44 Wp 1.13 Wp	2.0 2.5	1 0	1	2 ½	2	
Lenovo ThinkCentre M900 PC ^[8]	10FLS1P200	7.0	7.2	1.4	3	Rigid Base	UUT 1601-6	1.44 Wp 1.13 Wp	2.0 2.5	1 0	1	2 ½	2	
Control Interface Box (CIB)	SDR-OGCI80U	3.5	7.25	7.5	2	Rigid Base	UUT 1601-10	1.44 Wp 1.13 Wp	2.0 2.5	1 0	1	2 ½	2	
MISC														
Cisco Access Point	AIR-SAP2602I-A-K9	8.7	8.7	2.1	2	Rigid Base	UUT 1601-7	1.44 Wp 1.13 Wp	2.0 2.5	1 0	1	2 ½	2	
Cisco Access Point	AIR-SAP2602I-B-K9	8.7	8.7	2.1	2	Rigid Base	SAME	1.44 Wp 1.13 Wp	2.0 2.5	1 0	1	2 ½	2	
DLINK Switch	DGS-1008P	7.5	4.7	1.5	2	Rigid Base	UUT8 1601-8	1.44 Wp 1.13 Wp	2.0 2.5	1 0	1	2 ½	2	
DLINK Wireless Access Point	DIR-850L	5.8	4.3	3.8	1	Rigid Base	UUT 1601-9	1.44 Wp 1.13 Wp	2.0 2.5	1 0	1	2 ½	2	
D-Link Access Point	DAP-2660A1	6.7	6.7	1.1	0.5	Rigid Base	UUT 1607-12	1.44 Wp 1.13 Wp	2.0 2.5	1 0	1	2 ½	2	
Mount	<p>RIGID BASE (FLOOR) MOUNT: free-standing, base-mounted tower configuration with the component rigidly attached to a supporting structure and no lateral support above the base.</p> <p>WALL/FLOOR MOUNT refers to a condition where the unit bears on and anchored to the supporting floor. In addition, lateral restraint anchoring the unit to an adjacent wall or other supporting structure is provided along the height of the equipment.</p> <p>CEILING SUSPENDED refers to a condition where the unit is anchored to and suspended from a framing system at or slightly above the ceiling line of the room.</p>													
Notes	<ol style="list-style-type: none"> BASIS: <ul style="list-style-type: none"> UUT#: Indicates that a test specimen matching these characteristics was tested as part of this testing program. Patient table weight does not include 545 patient weight present during testing. All components are manufactured by Samsung, unless otherwise noted. Requires use of Samsung Seismic Option Kit: Patient Table (Part No.: DGR-ACCSTA1/US) or equivalent. Requires use of Samsung Seismic Option Kit: Wall Stand (Part No.: DGR-ACCST2/US) or equivalent. Requires use of Samsung Seismic Option Kit: Cabinet (Part No.: DGR-ACCSCA1/US) or equivalent. Requires use of Samsung Seismic Option Kit: Workstation (Part No. DGR-ACCSPC1/US) or equivalent. Requires use of Samsung Seismic Option Kit: Workstation (Part No. DGR-ACCSPC2/US) or equivalent. Tabulated weight excludes detector, case, anti-scatter grid, seismic option kit, and cabling. 													

UUT1607- 1 Ceiling-mounted Tube Head Unit w/ 4m Bridge									
MANUFACTURER: Samsung									
IDENTIFICATION:									
THU:		SDR-OGTS73A							
4m Bridge		DGR-OPTRTN4/US							
Longitudinal Rail		DGR-OPTRL3/US							
Toshiba X-Ray Tube 600K		E7869X							
DESCRIPTION: Component of GC70 digital radiography system. Ceiling Mounted Tube Head Unit (THU)									
MOUNTING: Ceiling Mounted using (2)-M8 A2-70 Socket Head Cap Screws w/ Unistrut P1007 M8 channel nuts. Typ. each of 7 Unistrut P1001 supports spaced 26" o.c. along each longitudinal rail. (Torque = 33.5 ft-lb) (28 bolts total) Unistrut P1001 attached HSS frame members spaced 40" max. o.c. w/ (2) - 1/2" dia. Grade 8 bolts & Unistrut P1010 channel nuts.									
PROPERTIES:									
DIMENSIONS (in.)				Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height			Front-Axis	Side-Axis	Vert-Axis		
157.5	23.6	49.4 / 121.6		902	---	---	---		
SHAKE TABLE TEST PARAMETERS					*Weight includes equipment and all cabling attached to fixture.				
CODE	TEST CRITERIA	S _{DS} (G)	z/h	I _P	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)	
CBC 2016	ICC-ES AC156	2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68	
Unit maintained structural integrity and remained functional per manufacturer requirement									


UUT1607- 2 Ceiling-mounted Tube Head Unit w/ 3m Bridge									
MANUFACTURER: Samsung									
IDENTIFICATION:									
THU:		SDR-OGTS73A							
3m Bridge		DGR-OPTRTN3/US							
Longitudinal Rail		DGR-OPTRL3/US							
Toshiba X-Ray Tube 300K		E7252X							
DESCRIPTION: Component of GC70 digital radiography system. Ceiling Mounted Tube Head Unit (THU)									
MOUNTING: Ceiling Mounted using (2)-M8 A2-70 Socket Head Cap Screws w/ Unistrut P1007 M8 channel nuts. Typ. each of 7 Unistrut P1001 supports spaced 26" o.c. along each longitudinal rail. (Torque = 33.5 ft-lb) (28 bolts total) Unistrut P1001 attached HSS frame members spaced 40" max. o.c. w/ (2) - 1/2" dia. Grade 8 bolts & Unistrut P1010 channel nuts.									
PROPERTIES:									
DIMENSIONS (in.)				Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height			Front-Axis	Side-Axis	Vert-Axis		
118.1	23.6	49.4 / 121.6		836	---	---	---		
SHAKE TABLE TEST PARAMETERS					*Weight includes equipment and all cabling attached to fixture.				
CODE	TEST CRITERIA	S _{DS} (G)	z/h	I _P	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)	
CBC 2016	ICC-ES AC156	2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68	
Unit maintained structural integrity and remained functional per manufacturer requirement									


ATTACHMENT 2: SEISMIC CERTIFIED COMPONENTS


UUT1607- 4 Wallstand w/ Rotating Detector Tray and C1 Detector									
MANUFACTURER:		DRGEM	Samsung	JPI					
IDENTIFICATION:		Wallstand	Detector	Anti-Scatter Grid					
Model No.:		SDR-OGST73A	S4335-W	M197-03295A					
DESCRIPTION:		Component of GC70 digital radiography system Manual Tilting Wallstand w/ <ul style="list-style-type: none"> • Rotating detector tray (change from portrait to landscape) • Wireless portable digital detector installed (C1#) • Anti-scatter grid installed (110 cm SID) • Seismic option Kit (Wall Stand part no.: DGR-ACCSST2/US) <ul style="list-style-type: none"> ○ Wall Stand Top Brackets ○ Wall Stand Detector-Tray Holder 							
MOUNTING:		Wall/Floor mounted using (2) – 3/8" diam. socket head cap screws & washers (Torque=25 ft-lb) to floor and (4) – 3/8" diam. gr 8 bolts to wall.							
PROPERTIES:									
DIMENSIONS (in.)					LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height	Weight (lb.)		Front-Axis	Side-Axis	Vert-Axis		
29.25	37.36	85.8	439.5*		18	6.97	7.98		
SHAKE TABLE TEST PARAMETERS					*Installed weight, including mounting hardware and all cabling attached to fixture.				
CODE	TEST CRITERIA	S _{DS} (G)	z/h	I _P	A _{FLEX-H} (G)	A _{RIG-H} (G)	A _{FLEX-V} (G)	A _{RIG-V} (G)	
CBC 2016	ICC-ES AC156	2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68	
Unit maintained structural integrity and remained functional per manufacturer requirement									


UUT1607- 5 Manual Tilting Wallstand w/ Rotating Detector Tray & C2 Detector									
MANUFACTURER:		DRGEM	Samsung	JPI					
IDENTIFICATION:		Wallstand	Detector	Anti-Scatter Grid					
Model No.:		SDR-OGST73B	S4343-W	M197-03297A					
DESCRIPTION:		Component of GC70 digital radiography system Manual Tilting Wallstand w/ <ul style="list-style-type: none"> • Wireless portable digital detector installed (C2) • Anti-scatter grid installed (180 cm SID) • Seismic option Kit (Wall Stand, part no.: DGR-ACCSST2/US) <ul style="list-style-type: none"> ○ Wall Stand Top Brackets ○ Wall Stand Detector-Tray Holder 							
MOUNTING:		Wall/Floor mounted using (2) – 3/8" diam. socket head cap screws & washers (Torque=25 ft-lb) to floor and (4) – 3/8" diam. gr 8bolts to wall.							
PROPERTIES:									
DIMENSIONS (in.)					LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height	Weight (lb.)		Front-Axis	Side-Axis	Vert-Axis		
29.25	37.36	85.8	438*		8.04	6.66	7.68		
SHAKE TABLE TEST PARAMETERS					*Installed weight, including mounting hardware and all cabling attached to fixture.				
CODE	TEST CRITERIA	S _{DS} (G)	z/h	I _P	A _{FLEX-H} (G)	A _{RIG-H} (G)	A _{FLEX-V} (G)	A _{RIG-V} (G)	
CBC 2016	ICC-ES AC156	2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68	
Unit maintained structural integrity and remained functional per manufacturer requirement									


ATTACHMENT 2: SEISMIC CERTIFIED COMPONENTS

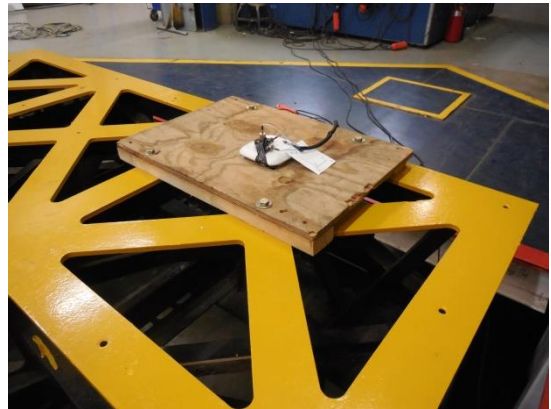
UUT1607- 6 System Cabinet Type A w/ 82kW HVG (DRGEM)									
MANUFACTURER: Samsung									
IDENTIFICATION: Model No.: SDR-OGCA75A									
DESCRIPTION: Component of GC70 digital radiography system 82kW High Voltage X-Ray Generator (HVG) by DRGEM Mounting brackets are provided in : <ul style="list-style-type: none"> Seismic Option Kit (Cabinet, part no.: DGR-ACCSCA1/US) 									
MOUNTING: Rigid Base (Floor) Mounted using (3) – 3/8" diam. socket head cap screws each bracket (6 total) to aluminum plate. (3) – M8 stainless steel (A2-70) screws through bracket to cabinet frame (Torque = 220 cm-kgf). Typical each bracket.									
PROPERTIES:									
DIMENSIONS (in.)					LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height	Weight (lb.)		Front-Axis	Side-Axis	Vert-Axis		
29.5	19.9	44.1	485		13.48	15.12	>50		
SHAKE TABLE TEST PARAMETERS									
CODE	TEST CRITERIA	S _{DS} (G)	z/h	I _P	A _{FLEX-H} (G)	A _{RIG-H} (G)	A _{FLEX-V} (G)	A _{RIG-V} (G)	
CBC 2016	ICC-ES AC156	2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68	
Unit maintained structural integrity and remained functional per manufacturer requirement									

UUT1607- 7 System Cabinet Type B w/ 50kW HVG (Spellman)									
MANUFACTURER: Samsung									
IDENTIFICATION: Model No.: SDR-OGCA75D									
DESCRIPTION: Component of GC70 digital radiography system 50kW High voltage X-Ray Generator (HVG) by Spellman High Voltage Electronics. Mounting brackets are provided in : <ul style="list-style-type: none"> Seismic Option Kit (Cabinet, part no.: DGR-ACCSCA1/US) 									
MOUNTING: Rigid Base (Floor) Mounted using (3) – 3/8" diam. socket head cap screws each bracket (6 total) to aluminum plate.									
PROPERTIES:									
DIMENSIONS (in.)					LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height	Weight (lb.)		Front-Axis	Side-Axis	Vert-Axis		
29.5	19.9	44.1	408		10.61	11.64	>50		
SHAKE TABLE TEST PARAMETERS									
CODE	TEST CRITERIA	S _{DS} (G)	z/h	I _P	A _{FLEX-H} (G)	A _{RIG-H} (G)	A _{FLEX-V} (G)	A _{RIG-V} (G)	
CBC 2016	ICC-ES AC156	2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68	
Unit maintained structural integrity and remained functional per manufacturer requirement									

UUT1607- 9 System Cabinet w/ 80kW HVG (Spellman)									
MANUFACTURER: Samsung									
IDENTIFICATION: Model No.: SDR-OGCA75C									
DESCRIPTION: Component of CG70 digital radiography system 80kW High Voltage X-Ray Generator (HVG) by Spellman High Voltage Electronics. Mounting brackets are provided in : <ul style="list-style-type: none"> Seismic Option Kit (Cabinet, part no.: DGR-ACCSCA1/US) 									
MOUNTING: Rigid Base (Floor) Mounted using (3) – 3/8" diam. socket head cap screws each bracket (6 total) to aluminum plate.									
PROPERTIES:									
DIMENSIONS (in.)				Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height			Front-Axis	Side-Axis	Vert-Axis		
29.5	19.9	44.1		408	12.71	11.37	21.14		
SHAKE TABLE TEST PARAMETERS									
CODE	TEST CRITERIA	S _{DS} (G)	z/h	I _P	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)	
CBC 2016	ICC-ES AC156	2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68	
Unit maintained structural integrity and remained functional per manufacturer requirement									

UUT1607- 10 Floor Switch (Table)									
MANUFACTURER: Samsung									
IDENTIFICATION: Model No.: SDR-OGSF70A									
DESCRIPTION: Wireless foot pedal assy for patient table Component of CG70 digital radiography system									
MOUNTING: Rigid Base (Floor) Mounted w/ (2) – 1" x 3" 3M Industrial Velcro hook & loop tape.									
PROPERTIES:									
DIMENSIONS (in.)				Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height			Front-Axis	Side-Axis	Vert-Axis		
15.7	7.9	5.5		2.5	10.11	>50	17.21		
SHAKE TABLE TEST PARAMETERS									
CODE	TEST CRITERIA	S _{DS} (G)	z/h	I _P	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)	
CBC 2016	ICC-ES AC156	2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68	
Unit maintained structural integrity and remained functional per manufacturer requirement									

UUT1607- 11 Patient Table w/ C2 Detector & Grid											
MANUFACTURER: Samsung											
IDENTIFICATION: Table		Detector		Grid							
Model No.: SDR-OGTA80U		S4343W		M197-03297A							
DESCRIPTION: Component of GC70 & GC85A digital radiography system Elevating Float-Top Radiographic Table w/ <ul style="list-style-type: none"> • Wireless portable digital detector installed • Anti-scatter grid installed (180 cm SID) • Seismic Option Kit (Patient Table, part no.: DGR-ACCSTA1/US) <ul style="list-style-type: none"> ○ Patient Table Detector Tray/Grid Holder ○ Patient Table Grid Holder 											
MOUNTING: Rigid Base (Floor) Mounted w/ (8) – 5/8" Grade 8 hex head bolts w/ washers to tapped holes in aluminum interface plate.											
PROPERTIES:											
DIMENSIONS (in.)				Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)						
Width	Depth	Height			Front-Axis	Side-Axis	Vert-Axis				
94.9	32.0	21.5 min 35.4 max	510	30.9	25.21	13.45					
SHAKE TABLE TEST PARAMETERS											
CODE	TEST CRITERIA	S _{DS} (G)	z/h	I _P	A _{FLEX-H} (G)	A _{IRIG-H} (G)	A _{FLEX-V} (G)	A _{IRIG-V} (G)			
CBC 2016	ICC-ES AC156	2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68			
Unit maintained structural integrity and remained functional per manufacturer requirement											

UUT1607- 12 D-Link Access Point									
MANUFACTURER: Samsung									
IDENTIFICATION: Model No.: DAP-2660A1									
DESCRIPTION: Component of CG70 digital radiography system									
MOUNTING: Rigid Base Mounted w/ (2) - #8 x 3/4 SMS through D-Link mounting bracket to 3/4" thick plywood sheet.									
PROPERTIES:									
DIMENSIONS (in.)				Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height			Front-Axis	Side-Axis	Vert-Axis		
6.7	6.7	1.1	1/2	>50	30.59	44.03			
SHAKE TABLE TEST PARAMETERS									
CODE	TEST CRITERIA	S _{DS} (G)	z/h	I _P	A _{FLEX-H} (G)	A _{IRIG-H} (G)	A _{FLEX-V} (G)	A _{IRIG-V} (G)	
CBC 2016	ICC-ES AC156	2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68	
Unit maintained structural integrity and remained functional per manufacturer requirement									

UUT1601- 2 Patient Table w/ Detector								
MANUFACTURER:		Samsung						
IDENTIFICATION:		Model No.: SDR-OGTA80U						
DESCRIPTION:		Component of the GC85A Digital X-Ray system. <ul style="list-style-type: none"> • Samsung S4335-W Digital Flat Panel Detector installed. • 545 simulated patient load. • Seismic Option Kit (Patient Table, part no.: DGR-ACCSTA1/US) 						
MOUNTING:		Rigid Base (Floor) Mounted using (8) – 5/8" diameter Grade 8 bolts w/ washers.						
PROPERTIES:								
DIMENSIONS (in.)				Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)			
Width	Depth	Height	Front-Axis		Side-Axis	Vert-Axis		
94.9	32.0	21.5 min 35.4 max	441	10.2	31.2	8.5		
SHAKE TABLE TEST PARAMETERS								
CODE	TEST CRITERIA	S _{DS} (G)	z/h	I _P	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)
CBC 2016	ICC-ES AC156	2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68
Unit maintained structural integrity and remained functional per manufacturer requirement								

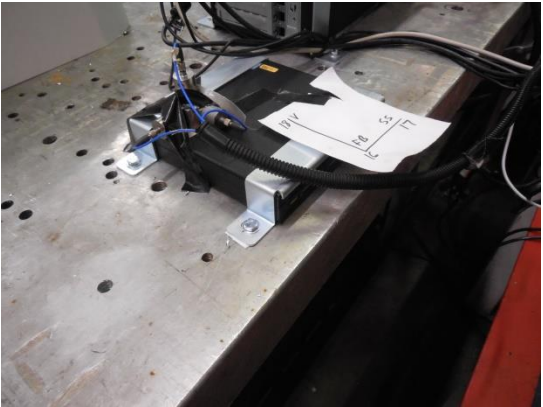



UUT1601- 5 Lenovo ThinkStation P310								
MANUFACTURER:		Lenovo						
IDENTIFICATION:		Model no.: 30ASS04X00						
DESCRIPTION:		Component of the GC85A Digital X-Ray system. Unit included external mounting brackets provided by Samsung. Seismic Option Kit (Workstation , part no.: DGR-ACCSPC1/US).						
MOUNTING:		Rigid Base using (4) – ¼" -20 machine screws through external mounting brackets provided by Samsung						
PROPERTIES:								
DIMENSIONS (in.)				Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)			
Width	Depth	Height	Front-Axis		Side-Axis	Vert-Axis		
6.9	16.8	14.8	19	20.2	34.9	>50		
SHAKE TABLE TEST PARAMETERS								
CODE	TEST CRITERIA	S _{DS} (G)	z/h	I _P	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)
CBC 2016	ICC-ES AC156	2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68
Unit maintained structural integrity and remained functional per manufacturer requirement								



ATTACHMENT 2: SEISMIC CERTIFIED COMPONENTS

ATTACHMENT PAGE | 7 OF 9

UUT1601- 6 Lenovo ThinkCentre M900										
MANUFACTURER:		Lenovo								
IDENTIFICATION:		Model no.: 10FLS1P200								
DESCRIPTION:		Component of the GC85A Digital X-Ray system. Unit included external mounting brackets provided by Samsung. Seismic Option Kit (Workstation , part no.: DGR-ACCSPC2/US)								
MOUNTING:		Rigid Base using (4) – ¼" -20 machine screws through external mounting brackets provided by Samsung.								
										
PROPERTIES:										
DIMENSIONS (in.)					Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height				Front-Axis	Side-Axis	Vert-Axis		
7.0	7.2	1.4	3		>50	>50	>50			
SHAKE TABLE TEST PARAMETERS										
CODE	TEST CRITERIA	S _{DS} (G)	z/h	I _P	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)		
CBC 2016	ICC-ES AC156	2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68		
Unit maintained structural integrity and remained functional per manufacturer requirement										

UUT1601- 7 Access Point										
MANUFACTURER:		Cisco								
IDENTIFICATION:		Model no.: AIR-SAP26021-A-K9								
DESCRIPTION:		Component of the GC85A Digital X-Ray system.								
MOUNTING:		Rigid Base using (2) – ¼"-20 x 1" machine screws through cisco mounting bracket								
										
PROPERTIES:										
DIMENSIONS (in.)					Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height				Front-Axis	Side-Axis	Vert-Axis		
8.7	8.7	2.1	2		46.2	43.7	45.1			
SHAKE TABLE TEST PARAMETERS										
CODE	TEST CRITERIA	S _{DS} (G)	z/h	I _P	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)		
CBC 2016	ICC-ES AC156	2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68		
Unit maintained structural integrity and remained functional per manufacturer requirement										

ATTACHMENT 2: SEISMIC CERTIFIED COMPONENTS


UUT1601- 8 DLINK Switch										
MANUFACTURER:		Samsung								
IDENTIFICATION:		Model no.:DGS-1008P								
		Serial no.:QXBP1G3000010								
DESCRIPTION:		Component of the GC85A Digital X-Ray system.								
MOUNTING:		Counter Top Anchored (CTA) Mounted using (2) – 1" x 7" industrial Velcro hook & loop tape.								
PROPERTIES:										
DIMENSIONS (in.)					Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height				Front-Axis	Side-Axis	Vert-Axis		
7.5	4.7	1.5			2	>50	>50	>50		
SHAKE TABLE TEST PARAMETERS										
CODE	TEST CRITERIA	S _{DS} (G)	z/h	I _P	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)		
CBC 2016	ICC-ES AC156	2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68		
Unit maintained structural integrity and remained functional per manufacturer requirement										



UUT161- 9 DLINK Wireless Access Point DIR-850L										
MANUFACTURER:		Samsung								
IDENTIFICATION:		Model no.: KIR850LKKR...A1E								
DESCRIPTION:		Component of the GC85A Digital X-Ray system.								
MOUNTING:		Counter Top Anchored (CTA) Mounted using (2) – 1" x 5" industrial Velcro hook & loop tape.								
PROPERTIES:										
DIMENSIONS (in.)					Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height				Front-Axis	Side-Axis	Vert-Axis		
5.75	4.25	3.75			1	>50	>50	>50		
SHAKE TABLE TEST PARAMETERS										
CODE	TEST CRITERIA	S _{DS} (G)	z/h	I _P	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)		
CBC 2016	ICC-ES AC156	2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68		
Unit maintained structural integrity and remained functional per manufacturer requirement										



ATTACHMENT 2: SEISMIC CERTIFIED COMPONENTS

UUT1601- 10 Control Interface Box								
<i>MANUFACTURER:</i> Samsung								
<i>IDENTIFICATION:</i> Model no.: SDR-OGCI80U								
<i>DESCRIPTION:</i> Component of the GC85A Digital X-Ray system.								
<i>MOUNTING:</i> Rigid Base (Floor) Mounted using 1/4"-20 x 1" machine screw in tapped hole in aluminum plate								
<i>PROPERTIES:</i>								
DIMENSIONS (in.)				Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)			
Width	Depth	Height	Front-Axis		Side-Axis	Vert-Axis		
3.5	7.25	7.5	2	38.5	38.8	42.4		
<i>SHAKE TABLE TEST PARAMETERS</i>								
CODE	TEST CRITERIA	S _{Ds} (G)	z/h	I _p	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)
CBC 2016	ICC-ES AC156	2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68
Unit maintained structural integrity and remained functional per manufacturer requirement								